

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L8-840D-F-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & #15177918.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2026-03-03

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4UDC-4-00-L15-840U-L8-840D-F-F-DIM-UNV\_

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[OTHER] This test was performed using the calibrated photodetector

[MORE] method of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9750
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	78.9
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13103	12775	12629
55	12044	11753	11629
65	11109	10841	10724
75	9421	9416	9411
85	7358	7653	7875

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## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1901.190	1901.190	1901.190	1901.190	1901.190
0.5	1929.900	1902.785	1893.216	1897.203	1890.823
1.0	1929.900	1901.988	1893.216	1897.203	1890.823
1.5	1929.102	1901.190	1892.418	1897.203	1890.026
2.0	1928.305	1900.393	1891.621	1896.406	1890.026
2.5	1927.507	1899.595	1890.026	1895.608	1889.228
3.0	1925.912	1898.001	1889.228	1894.811	1887.633
3.5	1924.317	1896.406	1887.633	1893.216	1886.038
4.0	1922.722	1894.811	1886.038	1891.621	1884.443
4.5	1921.127	1892.418	1884.443	1890.026	1882.051
5.0	1919.532	1890.823	1882.051	1887.633	1879.659
5.5	1917.140	1888.431	1879.659	1885.241	1877.266
6.0	1914.748	1885.241	1877.266	1882.848	1874.076
6.5	1911.558	1882.848	1874.076	1879.659	1871.684
7.0	1909.165	1879.659	1871.684	1876.469	1868.494
7.5	1906.773	1876.469	1868.494	1873.279	1866.101
8.0	1902.785	1873.279	1864.506	1870.089	1862.911
8.5	1899.595	1869.291	1860.519	1866.101	1858.924
9.0	1895.608	1866.101	1857.329	1862.114	1854.937
9.5	1891.621	1862.114	1852.544	1857.329	1850.949
10.0	1887.633	1858.127	1848.557	1853.342	1846.164
10.5	1882.848	1853.342	1843.772	1848.557	1842.177
11.0	1878.861	1848.557	1838.987	1843.772	1836.595
11.5	1873.279	1843.772	1834.202	1838.987	1831.810
12.0	1868.494	1838.987	1829.417	1833.405	1826.227
12.5	1863.709	1833.405	1823.835	1827.822	1820.645
13.0	1858.127	1828.620	1818.253	1822.240	1815.063
13.5	1852.544	1822.240	1812.670	1815.860	1809.480
14.0	1846.962	1816.658	1806.290	1810.278	1803.898
14.5	1841.380	1811.075	1799.911	1803.898	1797.518
15.0	1835.797	1804.695	1793.531	1797.518	1791.138
15.5	1828.620	1799.113	1787.151	1790.341	1783.961
16.0	1820.645	1792.733	1779.974	1783.961	1777.581
16.5	1812.670	1785.556	1772.796	1776.784	1770.404
17.0	1805.493	1778.379	1765.619	1769.606	1763.227
17.5	1797.518	1770.404	1757.644	1761.632	1755.252
18.0	1789.543	1762.429	1749.669	1753.657	1747.277
18.5	1781.569	1754.454	1741.695	1744.885	1739.302
19.0	1773.594	1746.479	1734.517	1736.910	1729.732
19.5	1764.821	1738.505	1726.542	1727.340	1720.163
20.0	1756.847	1729.732	1719.365	1718.568	1710.593
20.5	1748.074	1721.758	1711.390	1708.998	1701.023
21.0	1739.302	1712.985	1702.618	1699.428	1690.656
21.5	1729.732	1704.213	1693.048	1689.858	1680.289
22.0	1720.960	1694.643	1682.681	1679.491	1670.719
22.5	1711.390	1685.074	1673.111	1669.124	1660.352
23.0	1701.821	1675.504	1663.542	1657.959	1649.984
23.5	1692.251	1665.934	1653.174	1647.592	1640.415
24.0	1681.884	1656.364	1643.605	1637.225	1630.048
24.5	1671.516	1645.997	1633.237	1626.858	1619.680
25.0	1661.947	1635.630	1622.870	1616.490	1609.313
25.5	1651.579	1625.263	1611.705	1606.123	1598.148
26.0	1640.415	1614.098	1601.338	1595.756	1587.781
26.5	1630.048	1603.731	1590.174	1585.389	1577.414

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27.0	1618.883	1592.566	1579.009	1575.021	1566.249
27.5	1607.718	1581.401	1568.642	1564.654	1555.882
28.0	1596.553	1569.439	1556.679	1553.490	1544.717
28.5	1584.591	1557.477	1545.515	1543.122	1533.553
29.0	1572.629	1546.312	1534.350	1531.958	1522.388
29.5	1561.464	1534.350	1523.185	1519.995	1512.021
30.0	1549.502	1522.388	1512.021	1508.831	1500.856
30.5	1537.540	1510.426	1500.058	1497.666	1489.691
31.0	1524.780	1499.261	1488.096	1485.704	1478.526
31.5	1512.818	1487.299	1476.134	1473.742	1466.564
32.0	1500.058	1474.539	1464.172	1460.982	1454.602
32.5	1487.299	1462.577	1452.210	1449.020	1441.842
33.0	1474.539	1450.615	1440.247	1437.058	1429.083
33.5	1462.577	1437.855	1427.488	1424.298	1417.121
34.0	1449.020	1425.095	1415.526	1411.538	1404.361
34.5	1436.260	1412.336	1401.968	1398.779	1390.804
35.0	1423.500	1400.373	1389.209	1386.019	1377.247
35.5	1409.943	1386.816	1376.449	1373.259	1363.689
36.0	1396.386	1374.057	1363.689	1359.702	1350.930
36.5	1383.626	1361.297	1350.930	1346.942	1338.170
37.0	1370.069	1347.740	1337.373	1333.385	1324.613
37.5	1356.512	1334.183	1324.613	1319.828	1311.853
38.0	1342.158	1320.626	1311.056	1306.271	1298.296
38.5	1328.600	1307.068	1297.499	1293.511	1284.739
39.0	1315.841	1293.511	1283.942	1279.954	1271.979
39.5	1301.486	1279.954	1271.182	1266.397	1257.625
40.0	1287.929	1265.600	1257.625	1252.840	1244.865
40.5	1273.574	1252.042	1244.068	1239.283	1231.308
41.0	1260.017	1237.688	1230.510	1224.928	1216.953
41.5	1245.663	1224.131	1216.156	1211.371	1202.599
42.0	1232.105	1209.776	1202.599	1197.814	1189.042
42.5	1218.548	1196.219	1189.042	1183.459	1175.484
43.0	1204.194	1182.662	1175.484	1169.902	1161.130
43.5	1190.636	1168.307	1161.130	1156.345	1147.573
44.0	1176.282	1153.952	1146.775	1141.990	1134.015
44.5	1161.927	1139.598	1132.420	1127.636	1119.661
45.0	1147.573	1126.041	1118.863	1113.281	1106.104
45.5	1134.015	1111.686	1104.509	1099.724	1092.547
46.0	1119.661	1097.331	1090.154	1085.369	1078.989
46.5	1105.306	1082.977	1076.597	1071.812	1065.432
47.0	1090.952	1068.622	1062.242	1057.457	1051.078
47.5	1075.799	1054.268	1047.888	1043.103	1037.520
48.0	1061.445	1039.913	1033.533	1029.546	1023.166
48.5	1047.090	1025.558	1019.976	1015.191	1008.811
49.0	1031.938	1011.204	1005.621	1000.836	995.254
49.5	1017.583	996.849	991.267	987.279	981.697
50.0	1002.431	982.494	976.912	972.925	967.342
50.5	987.279	968.140	962.557	958.570	953.785
51.0	972.127	953.785	948.203	944.215	939.431
51.5	957.773	939.431	933.848	930.658	925.076
52.0	943.418	925.076	919.494	916.304	911.519
52.5	928.266	910.721	905.139	902.746	897.164
53.0	913.911	896.367	890.784	888.392	882.809
53.5	898.759	882.012	876.430	874.037	868.455
54.0	884.404	867.657	862.873	860.480	854.100
54.5	870.050	854.100	848.518	846.125	839.746

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55.0	855.695	840.543	834.961	832.568	826.188
55.5	842.138	826.188	820.606	818.214	812.631
56.0	826.986	811.834	806.251	804.657	798.277
56.5	812.631	798.277	792.296	790.541	784.241
57.0	799.074	783.922	778.180	776.266	770.285
57.5	785.039	770.046	764.145	762.390	756.170
58.0	771.003	756.329	750.029	748.434	742.214
58.5	756.888	742.533	736.153	734.718	728.816
59.0	743.011	728.657	722.197	720.841	715.179
59.5	729.534	714.621	708.002	707.045	701.702
60.0	715.738	700.665	693.966	693.169	687.985
60.5	702.101	687.028	680.409	679.213	674.109
61.0	688.703	673.391	666.932	665.576	660.552
61.5	674.348	659.914	653.534	652.019	647.154
62.0	660.233	646.038	639.658	638.542	633.438
62.5	645.799	633.198	626.579	625.702	620.439
63.0	631.923	621.874	616.531	616.132	611.826
63.5	617.887	609.513	605.287	604.409	599.944
64.0	609.434	597.471	593.644	591.889	586.785
64.5	596.275	584.632	580.485	578.890	574.105
65.0	581.522	570.915	567.486	565.971	561.346
65.5	566.449	557.039	553.929	553.211	548.506
66.0	551.935	543.482	540.691	540.372	535.348
66.5	537.581	529.606	527.214	527.214	522.748
67.0	523.386	515.810	513.896	514.135	510.068
67.5	509.430	502.252	500.498	500.976	496.989
68.0	495.314	488.695	487.100	487.738	483.591
68.5	481.119	474.899	473.623	474.500	470.433
69.0	466.446	461.023	460.066	460.544	456.796
69.5	452.171	447.386	446.269	446.828	443.398
70.0	438.055	433.589	432.792	433.031	430.001
70.5	424.179	419.713	419.155	419.394	416.523
71.0	409.984	405.917	405.757	406.076	402.966
71.5	395.789	392.121	392.440	392.679	389.967
72.0	381.993	378.244	378.882	379.201	376.889
72.5	368.196	364.607	365.644	365.963	364.049
73.0	354.559	351.290	352.725	353.124	351.449
73.5	341.321	338.131	339.806	340.524	338.689
74.0	328.242	324.973	327.046	327.604	326.408
74.5	315.164	312.054	314.366	314.925	314.047
75.0	302.005	299.214	301.846	302.404	301.686
75.5	289.006	286.375	289.405	290.123	289.325
76.0	275.848	274.014	277.124	277.922	277.284
76.5	263.407	261.812	264.923	265.800	265.242
77.0	251.286	249.531	252.960	253.758	252.881
77.5	238.765	237.569	240.998	241.636	240.759
78.0	226.564	225.607	229.036	229.993	229.116
78.5	214.442	213.964	217.233	218.350	217.632
79.0	202.799	202.320	205.670	207.026	206.467
79.5	191.156	190.917	194.266	195.701	195.223
80.0	179.672	179.752	182.862	184.856	184.218
80.5	168.109	168.826	172.016	173.930	173.452
81.0	157.024	158.140	161.250	163.244	162.925
81.5	146.337	147.534	150.724	152.717	152.478
82.0	136.369	137.166	140.436	142.510	142.270
82.5	126.400	127.118	130.308	132.382	132.222

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83.0	116.432	117.548	120.340	122.493	122.652
83.5	106.623	107.979	110.690	112.764	113.242
84.0	97.452	98.568	101.120	103.114	103.832
84.5	88.121	89.318	91.710	93.704	94.422
85.0	79.429	80.386	82.619	84.373	85.011
85.5	70.976	71.454	73.368	75.202	75.840
86.0	62.682	62.841	64.516	66.191	66.988
86.5	54.468	54.468	55.983	57.498	58.216
87.0	46.174	46.174	47.291	49.204	49.763
87.5	37.960	38.040	39.076	40.990	41.708
88.0	30.145	30.065	31.102	33.175	33.973
88.5	22.648	22.170	23.526	25.360	26.476
89.0	14.674	14.434	16.269	18.023	19.219
89.5	6.779	8.055	9.729	11.085	11.484
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.016	2.644	2.440	2.373	2.576
91.0	11.049	5.830	4.745	4.677	4.609
91.5	17.760	11.863	7.050	6.982	6.914
92.0	24.538	19.726	10.168	9.083	9.083
92.5	31.588	27.860	15.726	11.388	11.185
93.0	38.909	35.655	22.234	15.116	13.625
93.5	46.298	43.112	29.216	20.404	17.760
94.0	53.551	50.433	36.943	26.708	23.386
94.5	61.007	57.753	45.010	33.215	29.487
95.0	68.328	65.278	52.941	39.858	35.520
95.5	75.649	72.327	60.668	46.704	41.892
96.0	82.631	79.513	68.260	53.822	48.399
96.5	89.681	86.698	75.852	61.075	55.110
97.0	96.527	93.748	83.376	68.328	62.227
97.5	103.577	100.865	90.968	75.717	69.345
98.0	110.559	107.847	98.357	83.038	76.530
98.5	117.540	114.897	105.475	90.494	83.715
99.0	124.658	122.150	112.728	97.611	90.968
99.5	131.843	129.335	120.049	104.729	98.086
100.0	138.893	136.588	127.369	112.050	105.068
100.5	146.214	143.841	134.690	119.642	112.118
101.0	153.738	151.094	142.147	127.302	119.777
101.5	161.398	158.483	149.739	134.961	127.708
102.0	168.854	166.143	157.331	142.621	135.571
102.5	176.650	173.735	165.194	150.281	143.367
103.0	184.648	181.598	172.989	157.873	151.298
103.5	192.647	189.597	181.259	166.007	159.161
104.0	200.849	197.663	189.664	174.413	167.363
104.5	209.322	206.069	198.070	183.021	175.565
105.0	217.999	214.677	206.408	191.495	183.903
105.5	226.879	223.422	215.016	200.036	192.173
106.0	235.894	232.234	223.761	208.712	200.442
106.5	244.978	241.317	232.912	217.457	208.780
107.0	254.671	250.807	242.673	226.743	217.863
107.5	264.703	260.568	252.570	236.572	227.692
108.0	274.668	270.601	262.670	247.215	237.792
108.5	285.175	280.836	272.770	257.857	248.231
109.0	295.953	291.275	283.141	268.635	258.806
109.5	307.002	302.121	294.055	279.345	269.516
110.0	318.796	313.238	305.239	290.326	280.701
110.5	330.862	324.626	316.695	302.121	292.292

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111.0	343.064	336.556	328.557	314.390	303.951
111.5	355.536	348.825	340.623	326.863	315.949
112.0	368.483	361.434	352.621	339.335	327.405
112.5	381.498	374.381	364.755	351.740	339.539
113.0	395.123	387.734	377.567	364.552	352.215
113.5	409.155	401.698	391.124	378.380	365.840
114.0	423.390	415.933	405.494	393.089	380.956
114.5	438.099	430.643	420.136	408.409	397.021
115.0	453.012	445.759	435.320	423.864	413.290
115.5	468.603	461.011	450.911	439.252	429.355
116.0	484.329	476.873	467.044	455.452	445.691
116.5	500.937	493.141	483.719	472.060	463.112
117.0	518.222	509.749	500.530	489.955	481.075
117.5	530.966	522.696	515.917	506.427	499.310
118.0	547.234	537.812	531.711	523.441	515.510
118.5	566.146	555.843	547.844	539.236	530.084
119.0	584.652	573.603	566.146	557.131	546.285
119.5	603.361	592.515	585.533	575.298	564.452
120.0	622.680	612.105	604.988	595.159	583.635
120.5	641.863	631.966	625.052	616.240	604.106
121.0	661.995	652.234	645.252	637.254	625.866
121.5	681.924	672.299	665.385	658.538	647.150
122.0	702.938	692.770	686.669	679.891	668.503
122.5	723.274	713.106	707.683	700.904	688.703
123.0	744.287	734.797	729.374	723.952	711.072
123.5	765.979	756.489	752.422	746.999	734.119
124.0	787.670	778.858	774.791	770.046	757.844
124.5	809.362	800.550	797.160	792.415	780.892
125.0	831.053	822.241	818.852	814.785	803.261
125.5	853.422	844.610	841.221	837.154	824.952
126.0	875.114	866.302	864.268	859.523	846.644
126.5	896.805	887.993	887.315	883.248	869.691
127.0	919.175	910.362	910.362	906.973	894.094
127.5	941.544	932.054	932.054	930.020	918.497
128.0	963.235	953.745	954.423	953.067	941.544
128.5	984.927	974.759	976.115	976.115	963.913
129.0	1006.618	995.772	997.806	998.484	986.960
129.5	1028.310	1017.464	1020.175	1021.531	1010.685
130.0	1050.001	1039.155	1042.545	1044.578	1035.766
130.5	1071.692	1060.169	1065.592	1066.947	1059.491
131.0	1093.384	1081.182	1087.283	1088.639	1081.182
131.5	1113.720	1101.518	1108.975	1108.975	1102.196
132.0	1134.733	1121.854	1129.988	1130.666	1122.532
132.5	1155.069	1142.867	1151.002	1151.680	1142.867
133.0	1175.405	1163.881	1171.337	1172.693	1162.525
133.5	1195.740	1184.217	1192.351	1193.707	1183.539
134.0	1216.076	1203.875	1212.009	1214.042	1203.875
134.5	1234.378	1223.532	1230.989	1232.345	1223.532
135.0	1252.680	1242.512	1249.291	1250.647	1241.157
135.5	1270.305	1262.170	1267.593	1268.271	1258.781
136.0	1287.929	1280.472	1284.540	1286.573	1277.083
136.5	1306.231	1298.097	1301.486	1304.875	1296.063
137.0	1323.178	1315.721	1319.110	1321.822	1313.688
137.5	1340.124	1331.990	1335.379	1337.413	1329.278
138.0	1356.393	1348.258	1350.970	1352.325	1344.191
138.5	1372.661	1363.849	1366.560	1367.238	1358.426

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L8-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1388.252	1379.440	1382.151	1382.151	1372.661
139.5	1403.843	1395.030	1397.064	1396.386	1386.218
140.0	1418.755	1409.265	1411.977	1411.299	1401.131
140.5	1432.990	1422.823	1425.534	1424.856	1414.010
141.0	1447.225	1437.058	1439.091	1437.735	1426.890
141.5	1460.105	1449.937	1452.648	1450.615	1438.413
142.0	1473.662	1463.494	1465.528	1462.816	1450.615
142.5	1486.541	1476.373	1478.407	1475.695	1462.138
143.0	1499.420	1488.575	1490.608	1487.897	1474.340
143.5	1511.622	1501.454	1502.810	1500.098	1485.863
144.0	1523.145	1513.655	1514.333	1510.944	1496.709
144.5	1534.669	1525.179	1525.857	1521.790	1507.555
145.0	1545.515	1536.703	1536.703	1531.958	1517.723
145.5	1557.038	1548.226	1547.548	1543.481	1528.568
146.0	1567.884	1559.072	1558.394	1553.649	1539.414
146.5	1578.730	1569.918	1568.562	1564.495	1550.260
147.0	1588.898	1580.763	1578.052	1575.340	1561.105
147.5	1599.065	1590.931	1588.220	1585.508	1571.273
148.0	1609.233	1601.099	1597.032	1594.998	1582.119
148.5	1619.401	1611.267	1605.844	1604.488	1592.965
149.0	1628.891	1621.435	1614.656	1613.978	1603.810
149.5	1638.381	1630.925	1622.790	1623.468	1613.978
150.0	1647.871	1640.415	1631.603	1632.280	1623.468
150.5	1657.361	1649.905	1639.737	1640.415	1632.958
151.0	1666.173	1658.717	1647.871	1648.549	1641.770
151.5	1675.663	1667.529	1656.683	1656.683	1649.905
152.0	1684.475	1676.341	1664.818	1664.140	1658.039
152.5	1693.288	1684.475	1672.952	1672.274	1665.495
153.0	1702.100	1692.610	1681.086	1680.408	1672.274
153.5	1710.234	1700.744	1689.220	1688.543	1678.375
154.0	1718.368	1708.878	1698.033	1696.677	1685.153
154.5	1727.180	1716.335	1706.167	1704.133	1691.932
155.0	1735.315	1723.791	1714.301	1712.268	1699.388
155.5	1742.771	1730.570	1722.435	1720.402	1706.845
156.0	1750.228	1738.026	1731.248	1727.858	1714.301
156.5	1757.684	1745.483	1739.382	1735.993	1721.758
157.0	1765.140	1752.939	1747.516	1744.127	1729.214
157.5	1771.919	1759.718	1754.973	1751.583	1736.670
158.0	1778.698	1766.496	1762.429	1759.040	1744.127
158.5	1786.154	1773.953	1769.885	1766.496	1752.261
159.0	1792.255	1780.731	1776.664	1773.953	1759.718
159.5	1799.033	1787.510	1783.443	1781.409	1767.174
160.0	1805.134	1793.610	1790.221	1788.188	1774.630
160.5	1811.235	1799.711	1796.322	1794.966	1782.087
161.0	1817.336	1805.812	1802.423	1801.745	1789.543
161.5	1823.436	1812.591	1807.846	1808.523	1797.000
162.0	1830.215	1818.691	1813.268	1815.302	1803.778
162.5	1836.316	1824.792	1818.691	1821.403	1809.879
163.0	1842.416	1830.893	1824.114	1827.503	1815.980
163.5	1848.517	1836.316	1829.537	1833.604	1821.403
164.0	1854.618	1841.738	1834.282	1839.027	1826.826
164.5	1859.363	1847.161	1839.027	1844.450	1832.248
165.0	1864.786	1852.584	1843.772	1849.873	1836.993
165.5	1870.208	1857.329	1848.517	1854.618	1841.738
166.0	1875.631	1862.074	1853.262	1859.363	1845.806
166.5	1881.054	1866.819	1858.007	1863.430	1850.551

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L8-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1885.799	1870.886	1862.074	1867.497	1854.618
167.5	1890.544	1874.953	1866.819	1871.564	1859.363
168.0	1895.289	1879.021	1870.886	1875.631	1863.430
168.5	1900.034	1883.088	1874.953	1879.698	1868.175
169.0	1904.101	1886.477	1879.021	1883.088	1872.242
169.5	1907.491	1889.866	1882.410	1886.477	1876.309
170.0	1910.880	1893.256	1885.799	1889.866	1881.054
170.5	1914.269	1896.645	1888.511	1893.256	1884.443
171.0	1917.658	1899.356	1891.222	1896.645	1887.833
171.5	1920.370	1902.068	1893.933	1900.034	1891.222
172.0	1923.081	1904.779	1895.967	1902.746	1893.933
172.5	1925.793	1907.491	1898.001	1904.779	1895.967
173.0	1928.504	1910.202	1900.034	1907.491	1897.323
173.5	1930.538	1912.236	1902.068	1908.846	1898.678
174.0	1932.571	1914.269	1904.101	1910.202	1899.356
174.5	1933.927	1915.625	1905.457	1911.558	1900.034
175.0	1935.283	1917.658	1906.813	1912.236	1900.034
175.5	1936.638	1919.014	1908.846	1912.913	1900.712
176.0	1937.994	1920.370	1910.202	1912.913	1900.712
176.5	1938.672	1921.726	1910.880	1913.591	1900.712
177.0	1939.350	1923.081	1912.236	1913.591	1900.034
177.5	1940.706	1924.437	1913.591	1913.591	1900.034
178.0	1941.383	1924.437	1914.269	1913.591	1900.712
178.5	1941.383	1925.115	1914.947	1913.591	1900.712
179.0	1942.061	1925.793	1914.947	1913.591	1900.712
179.5	1942.739	1925.793	1915.625	1913.591	1900.712
180.0	1919.014	1919.014	1919.014	1919.014	1919.014



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L8-840D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	687.10	N.A.	7.00
0-30	1436.49	N.A.	14.70
0-40	2307.75	N.A.	23.70
0-60	3921.38	N.A.	40.20
0-80	4802.17	N.A.	49.30
0-90	4895.24	N.A.	50.20
10-90	4715.89	N.A.	48.40
20-40	1620.65	N.A.	16.60
20-50	2485.54	N.A.	25.50
40-70	2174.43	N.A.	22.30
60-80	880.79	N.A.	9.00
70-80	320.00	N.A.	3.30
80-90	93.07	N.A.	1.00
90-110	277.72	N.A.	2.80
90-120	712.92	N.A.	7.30
90-130	1444.26	N.A.	14.80
90-150	3359.23	N.A.	34.50
90-180	4854.98	N.A.	49.80
110-180	4577.26	N.A.	46.90
0-180	9750.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	179.35
10-20	507.75
20-30	749.39
30-40	871.25
40-50	864.90
50-60	748.74
60-70	560.79
70-80	320.00
80-90	93.07
90-100	59.90
100-110	217.82
110-120	435.20
120-130	731.34
130-140	956.29
140-150	958.68
150-160	791.92
160-170	521.84
170-180	181.98

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L8-840D-F-F-DIM-UNV\_.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	48	42
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	57	52	48	47	44	41	39	36	34	30
4	74	63	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	54	43	36	30	37	31	27	31	27	23	26	23	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	16
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L8-840D-F-F-DIM-UNV\_.IES

## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.7	17.6	17.7	18.6	19.8	16.6	17.5	17.6	18.5	19.7
	3H	18.5	19.3	19.5	20.2	21.5	18.4	19.2	19.4	20.2	21.4
	4H	19.1	19.8	20.1	20.8	22.1	19.0	19.8	20.0	20.7	22.0
	6H	19.5	20.2	20.5	21.2	22.5	19.5	20.2	20.5	21.2	22.5
	8H	19.7	20.3	20.7	21.3	22.6	19.6	20.3	20.6	21.3	22.6
	12H	19.7	20.4	20.7	21.4	22.7	19.7	20.3	20.7	21.3	22.7

### UGR Viewed Endwise

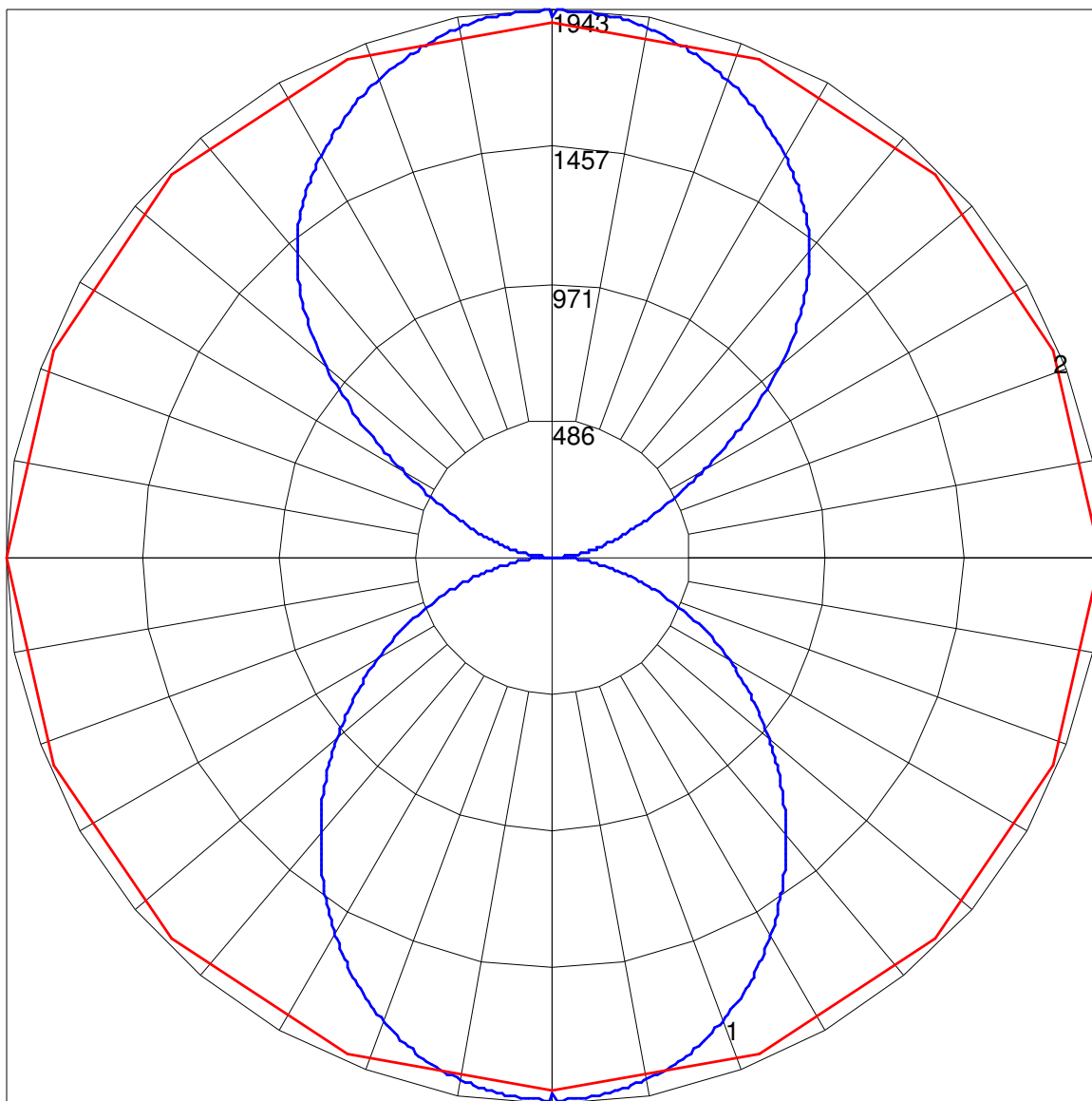
4H	2H	17.3	18.0	18.3	19.0	20.3	17.2	17.9	18.2	18.9	20.2
	3H	19.2	19.8	20.2	20.9	22.2	19.2	19.8	20.2	20.8	22.1
	4H	20.0	20.5	21.0	21.5	22.9	19.9	20.5	20.9	21.5	22.8
	6H	20.5	21.0	21.5	22.0	23.4	20.5	21.0	21.5	22.0	23.4
	8H	20.7	21.2	21.7	22.2	23.5	20.7	21.2	21.7	22.2	23.5
	12H	20.8	21.2	21.9	22.3	23.6	20.8	21.2	21.9	22.3	23.6

8H	4H	20.2	20.7	21.2	21.7	23.0	20.2	20.6	21.2	21.6	23.0
	6H	20.9	21.3	21.9	22.3	23.7	20.9	21.3	21.9	22.3	23.7
	8H	21.2	21.5	22.2	22.5	23.9	21.2	21.5	22.2	22.6	23.9
	12H	21.4	21.6	22.4	22.7	24.1	21.4	21.7	22.5	22.7	24.1

12H	4H	20.2	20.6	21.2	21.7	23.0	20.2	20.6	21.2	21.6	23.0
	6H	20.9	21.3	22.0	22.3	23.7	20.9	21.3	22.0	22.3	23.7
	8H	21.2	21.5	22.3	22.6	24.0	21.3	21.5	22.3	22.6	24.0

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 1942.739 Located At Horizontal Angle = 0, Vertical Angle = 179.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (179.5) (Through Max. Cd.)